

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 05184088 A

(43) Date of publication of application: 23.07.1993

(51) Int. Cl H02K 1/16

H02K 19/22

(21) Application number: 04018595

(22) Date of filing: 07.01.1992

(71) Applicant: NIPPONDENSO CO LTD

(72) Inventor: HAYASHI SEIJI

HAMASHIMA TAKAHIDE

(54) ALTERNATOR FOR VEHICLE

the groove 2 to the overall area S of the opposing face 16 is set lower than 50%.

(57) Abstract:

COPYRIGHT: (C)1993,JPO&Japio

PURPOSE: To provide an alternator for vehicle having high generation efficiency and reduced eddy current loss.

CONSTITUTION: An alternator for vehicle comprises a rotor having substantially trapezoidal pole and a stator core 12 comprising a toothed core 10 of laminated iron plates 10 having thickness (t) in the axial direction and applied with a poly-phase winding. Average gap between the rotor and the stator core 12 is set at G. A plurality of grooves 2 are formed, along the laminating direction, in the surface 16 of the toothed core 15 opposing to the rotor. The groove 2 has depth D deeper than the average gap G and groove pitch R not longer than three times of the thickness (t) of iron plate, wherein the ratio(M/S) of the opening area M of

